Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-15-33** **Date: 20-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2188	2436	48.7	51.3	25-55
4	4.75 mm	2285	4721	94.4	5.6	0-10
5	Pan	279	5000	100	0	-

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-15-33** **Date: 20-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.35	–
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-15-33** **Date: 21-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri G Mahendra (Sree Manojava Enterprises), No 243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	19-04-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	-
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-15-33** **Date: 17-05-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No 03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No 243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	19-04-2022
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-15-33** **Date: 21-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	18-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	211	211	1.4	98.6	90-100
3	20 mm	7355	7566	50.4	49.6	30-70
4	10 mm	4219	11785	78.6	21.4	10-35
5	4.75 mm	2855	14640	97.6	2.4	0-5
6	Pan	360	15000	100.0		---

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-15-33** **Date: 31/05/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	31/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2022	31/05/2022	150.13 X 151.03 X 151.07	22676	9.036	428.3	18.9	18.6
2	Drain Concrete	M20	24/05/2022	31/05/2022	149.59 X 150.77 X 150.01	22553	8.255	409.9	18.2	
3	Drain Concrete	M20	24/05/2022	31/05/2022	151.31 X 150.79 X 150.65	22815	9.019	427.2	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/06/2022

Lab ID	:	CP-2022-07-15-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	21/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2022	21/06/2022	151.07 X 149.46 X 149.39	22580	9.073	532.5	23.6	23.0
2	Drain Concrete	M20	24/05/2022	21/06/2022	150.58 X 149.54 X 149.44	22517	8.867	502.4	22.3	
3	Drain Concrete	M20	24/05/2022	21/06/2022	149.76 X 150.40 X 149.77	22525	8.769	518.6	23.0	

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Technical Manager

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ. ಬೆಂಗಳೂರು-106

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-15-33** **Date: 31/05/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	31/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2022	31/05/2022	150.99 X 149.81 X 149.32	22619	8.219	424.9	18.8	18.7
2	Drain Concrete	M20	24/05/2022	31/05/2022	150.96 X 149.43 X 151.08	22558	8.779	419.0	18.6	
3	Drain Concrete	M20	24/05/2022	31/05/2022	150.41 X 151.90 X 149.86	22847	8.972	425.7	18.6	

* The results obtained are satisfactory as per standard requirements

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Authorized Signatory
Technical Manager

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 20-04-2022

Lab ID	:	**CP-2022-07-15-33**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	18-04-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Date: 20-04-2022

Lab ID	:	**CP-2022-07-15-33**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-04-2022
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	19-04-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 21-05-2022

Lab ID	:	CP-2022-07-15-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-2022
Sample Type /Size	:	Precast Cover Slab-230mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	16/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.05	230.49	3.205	31426	798.6	25.4	23.6	29.5
2	Cover Slab-2	200.07	230.53	3.199	31432	802.7	25.5	23.8	29.7
3	Cover Slab-3	200.03	230.51	3.147	31419	789.4	25.1	23.4	29.2

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 21-05-2022

Lab ID	:	**CP-2022-07-15-33**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-2022
Sample Type /Size	:	Precast Cover Slab-100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	16/05/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-15-33
		Date: 21/06/2022
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	21/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2022	21/06/2022	149.33 X 150.57 X 151.23	22485	8.464	520.9	23.2	22.9
2	Drain Concrete	M20	24/05/2022	21/06/2022	150.38 X 149.91 X 150.16	22544	8.184	505.8	22.4	
3	Drain Concrete	M20	24/05/2022	21/06/2022	150.47 X 151.66 X 149.55	22821	8.349	530.2	23.2	

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Technical Manager

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2022

Lab ID	:	CP-2022-07-15-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	02/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2022	02/06/2022	150.84 X 150.13 X 151.71	22647	8.693	413.1	18.2	18.5
2	Drain Concrete	M20	26/05/2022	02/06/2022	150.20 X 150.84 X 149.51	22657	9.066	417.0	18.4	
3	Drain Concrete	M20	26/05/2022	02/06/2022	149.24 X 150.74 X 151.10	22497	8.871	422.4	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-07-15-33 **Date: 23/06/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2022	23/06/2022	151.67 X 151.29 X 151.39	22947	8.991	544.9	23.7	23.2
2	Drain Concrete	M20	26/05/2022	23/06/2022	150.38 X 150.04 X 150.63	22564	8.902	514.5	22.8	
3	Drain Concrete	M20	26/05/2022	23/06/2022	149.59 X 149.26 X 151.74	22328	8.750	514.0	23.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-15-33** **Date: 02/06/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2022	02/06/2022	151.40 X 151.44 X 150.72	22927	8.377	429.9	18.8	18.8
2	Drain Concrete	M20	26/05/2022	02/06/2022	150.21 X 151.47 X 149.52	22753	8.564	430.3	18.9	
3	Drain Concrete	M20	26/05/2022	02/06/2022	149.63 X 151.58 X 151.03	22681	8.570	424.8	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/06/2022

Lab ID	:	CP-2022-07-15-33
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/01/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-05-22
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	26/05/2022	23/06/2022	150.93 X 151.95 X 150.50	22933	8.388	541.8	23.6	23.1
2	Drain Concrete	M20	26/05/2022	23/06/2022	149.02 X 150.48 X 149.12	22424	8.502	505.8	22.6	
3	Drain Concrete	M20	26/05/2022	23/06/2022	150.33 X 151.70 X 151.99	22806	8.127	530.1	23.2	

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QC ABSTRACT

NAME OF WORK: Improvements to roads and drains at 8th A Main Attur Layout and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	78.11	10	10